

Form PTO 1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
11187-00001 (1364-DIV-01)SERIAL NO.  
09/616,718APPLICANT  
Bert L. Vallee & Wing-Ming KeungFILING DATE  
7/14/00GROUP  
1614

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
cm	AA	5	2	0	4	3	6	9	4/20/93	Vallee, et al	514	456	7/1/91
cm	AB	5	6	2	4	9	1	0	4/29/97	Vallee, et al	514	27	6/30/92
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
cm	AL	WO 93/00896	1/21/93	PCT	—	—		
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

cm	AR	Ambroziak et al., "Human Aldehyde Dehydrogenase," <i>J. Biol. Chem.</i> , 266(20):13011-13018 (1991)
	AS	Axelrod et al., "3-Methoxy-4-hydroxyphenylglycol sulfate, a new metabolite of epinephrine and norepinephrine," <i>Biochim. Biophys. Acta.</i> 36:576-577 (1959),
	AT	Beaufay et al., "Intracellular Distribution of Some Dehydrogenase and Iron in Rat-Liver Tissue," <i>J. Cell Biol.</i> , 73:623-628 (1959)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

11187-00001 (1364-DIV-01)

SERIAL NO.

09/616,718

APPLICANT

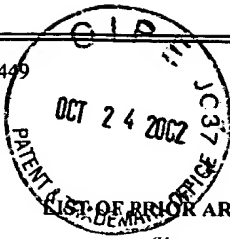
Bert L. Vallee & Wing-Ming Keung

FILING DATE

7/14/00

GROUP

1614



RECEIVED  
OCT 28 2002  
TECH CENTER 1600/2900

OTHER PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Dietrich et al., "Biogenic Amine-Aldehyde Condensation Products:..." <i>Annu. Rev. Pharmacol. Toxicol.</i> , 20:55-80 (1980)
	AS	Erwin et al., "Brain Aldehyde Dehydrogenase," <i>J. Biol. chem.</i> 241(15):3533-3539 (1966)
	AT	Feldstein, "Effect of Ethanol on Neurohumoral Amine Metabolism," Chapter 4, <i>The Biology of Alcoholism</i> , eds. B. Kissin & H. Beleiter, Plenum Press, New York, pp. 127-159 (1971)

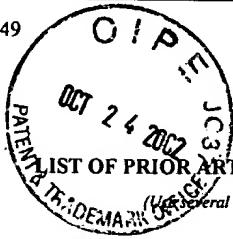
EXAMINER

DATE CONSIDERED

11/15/02

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
11187-00001 (1364-DIV-01)SERIAL NO.  
09/616,718

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Bert L. Vallee & Wing-Ming KeungFILING DATE  
7/14/00GROUP  
1614

RECEIVED  
OCT 28 2002  
TECH CENTER 1600/2900

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AF						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Heyman et al., "Daidzin Decreases Ethanol Consumption in Rats," <i>Alcohol. Clin. Exp. Res.</i> , 20(6):1083-1087 (1996)
	AS	Johnson and Lardy, "Isolation of Liver or Kidney Mitochondria," <i>Methods in Enzymology</i> , 10:94-101 (1967), reprinted in EXS 71, "Toward a Molecular Basis of Alcohol Use and Abuse"
	AT	Keung and Vallee, "Daidzin: A potent, selective inhibitor of human mitochondrial aldehyde dehydrogenate," <i>Proc. Natl. Acad. Sci. USA</i> , 90:1247-1251 (1993)

EXAMINER

DATE CONSIDERED

11/15/02

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1349

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
11187-00001 (1364-DIV-01)SERIAL NO.  
09/616,718APPLICANT  
Bert L. Vallee & Wing-Ming KeungFILING DATE  
7/14/00GROUP  
1614

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

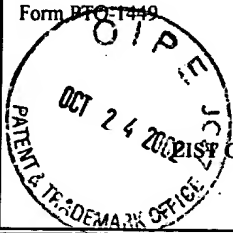
com	AR	Keung and Vallee, "Daidzin and daidzein suppress free-choice ethanol intake by Syrian Golden hamsters," <i>Proc. Natl. Acad. Sci. USA</i> , 90:10008-10012 (1993)
J	AS	Keung and Vallee, "Therapeutic lessons from traditional Oriental medicine to contemporary Occidental pharmacology," <i>Toward a Molecular Basis of Alcohol Use and Abuse</i> , pp. 371-381, eds. B. Jansson et al. (1994)
J	AT	Keung et al, "Daidzin inhibits mitochondrial aldehyde dehydrogenate and suppresses ethanol intake of Syrian golden hamsters," <i>Proc. Nat. Acad. Sci., USA</i> 94:1675-1679 (1997)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
11187-00001 (1364-DIV-01)SERIAL NO.  
09/616,718

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Bert L. Vallee & Wing-Ming KeungFILING DATE  
7/14/00GROUP  
1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
OCT 28 2002  
TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

cm	AR	Keung and Vallee, "Daidzin and its antidipsotropic analogs inhibit serotonin and dopamine metabolism in isolated mitochondria," <i>Proc. Natl. Acad. Sci., USA</i> , 95:2198-2203 (1998)
L	AS	Klyosov et al., "Possible Role of Liver Cytosolic and Mitochondrial Aldehyde Dehydrogenases in Acetaldehyde Metabolism," <i>Biochemistry</i> , 35:4445-4456 (1996)
J	AT	Koob et al., "Alcohol, the reward system and dependence," <i>Toward a Molecular Basis of Alcohol Use and Abuse</i> , ed. Jansson et al., pp. 103-114 (1994)

EXAMINER

cm

DATE CONSIDERED

11/15/02

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
11187-00001 (1364-DIV-01)SERIAL NO.  
09/616,718OCT 24 2002  
PATENT

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Bert L. Vallee & Wing-Ming KeungFILING DATE  
7/14/00GROUP  
1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

RECEIVED  
OCT 28 2002  
TECH CENTER 1600/2900

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

cm	AR	Lawrin et al., "Identification and Testing of New Drugs for Modulating Alcohol Consumption," <i>Psychopharmacology Bulletin</i> , 22(3):1020-1025 (1986)
↓	AS	Lin et al., "Isoflavonoid Compounds Extracted from <i>Pueraria lobata</i> Suppresses Alcohol Preference in a Pharmacogenetic Rat Model of Alcoholism," <i>Alcohol. Clin. Exp. Res.</i> , 20(4):659-663 (1996)
↓	AT	Liskow and Goodwin, "Pharmacological Treatment of Alcohol Intoxication, Withdrawal and Dependence: A Critical Review," <i>J. Studies of Alcohol</i> , 18(4):356-370 (1987)

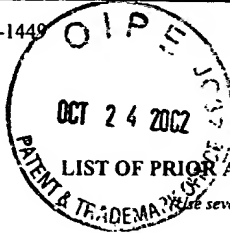
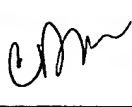
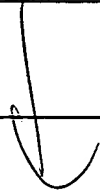
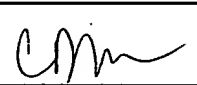
EXAMINER

cm

DATE CONSIDERED

11/15/02

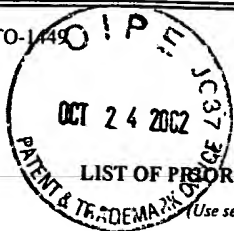
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 11187-00001 (1364-DIV-01)		SERIAL NO. 09/616,718	
 <p>LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)</p>					APPLICANT Bert L. Vallee & Wing-Ming Keung			
					FILING DATE 7/14/00		GROUP 1614	
<b>U.S. PATENT DOCUMENTS</b>								
EXAMINER INITIAL*	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AA							
	AB							
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							
<b>OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
	AR	Overstreet et al., "Selective Alcohol Intake-Suppressant Effects of the Isoflavones Daidzin, Daidzein & Puerarin in Alcohol-Preferring FH Rats," <i>RSA/ISBRA Abstracts</i> , p. 16A, no. 76, (1996)						
		AS	Overstreet et al., "Suppression of Alcohol Intake after Administration of the Chinese Herbal Medicine, NPI-028, and Its Derivatives," <i>Alcohol. Clin. Exp. Res.</i> , 20(2):221-227 (1996)					
AT		Peachey and Naranjo, "The Role of Drugs in the Treatment of Alcoholism," <i>Drugs</i> 27: 171-182 (1984)						
EXAMINER				DATE CONSIDERED				
				11/15/02				
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.</p>								

RECEIVED

OCT 28 2002

TECH CENTER 1600/2900



## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

## APPLICANT

Bert L. Vallee &amp; Wing-Ming Keung

## FILING DATE

7/14/00

## GROUP

1614

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

RECEIVED  
OCT 28 2002  
TECH CENTER 1500/2300

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AL							
AM							
AN							
AO							
AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Rashkovetsky et al., "Human liver aldehyde dehydrogenates: new method of purification of the major mitochondrial and cytosolic enzymes....," <i>Biochim. Biophys. Acta.</i> , 1205:301-307 (1994)	✓
	Tank et al., "Enzymology and Subcellular Localization of Aldehyde Oxidation in Rat Liver," <i>Biochim. Pharm.</i> , 30(24):3265-3275 (1981)	✓
AT	"Research on Promising Pharmacotherapies for Alcoholism," Program Announcement, Dept. of Health and Human Services (Catalog of Federal Domestic Assistance No. 13.273) pp. 1-17 (1990)	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.